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Polypropylene compsn. contg. zinc oxide as acid acceptor - reducing corrosion of processing appts. and deposition of low molecular material

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
BE 852727	A	19770922					197739 B
DE 2713642	A	19771013					197742
NL 7703313	A	19771003					197742
JP 52117942	A	19771003					197746
BR 7701912	A	19771108					197748
FR 2346399	A	19771202					197804
ZA 7701855	A	19780123					197812
GB 1514903	A	19780621					197825
CA 1084646	A	19800826					198039
IT 1073245	B	19850413					198540

Priority Applications (No Type Date): US 76671649 A 19760329

Abstract (Basic): BE 852727 A

A polypropylene compsn. contains (a) polypropylene prepd. by use of ziegler catalyst, antioxidant, (c) opt. a salt or ester of a 10-200C fatty acid, and (d) 0.005-0.1 (0.01-0.08) wt. % ZnO with particle size <1  $\mu$  <=0.3  $\mu$ ).

Corrosion of processing appts. and/or deposition of low-mol. components during thermal processing of the compsn. is prevented. Prods. have better surface gloss, and lower water adsorption than prods. contg. Ca stearate; extruded films of the compsn. can therefore be cooled in a water-bath.

Suitable the catalyst may be gamma-TiCl<sub>3</sub> + an alkyl-Al, e.g. (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>AlCl. The polymer usually contains 3-8% atactic and low-mol. material, and also catalyst residues, esp. 10-100 ppm Cl. Antioxidants include 2,6-di-tert. butylphenol and 4,4'-bis-(2,6-di-tert. butylphenol), opt. with an alkyl 3,3'-thiodipropionate. The mono- and di-glycerides of stearic acid, or Ca stearate are esp. added.